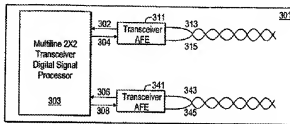




lines as disclosed and claimed in embodiments of Applicant's invention.

The Examiner next asserts that MIMO processing disclosed in *Ginis* can be used with the crosstalk cancellation of *Cioffi* in order to further reduce crosstalk on the transmission pair. The result of *Cioffi* including MIMO post-processing from *Ginis* would again be very similar to FIG. 3 in Applicant's specification where the input and output of the transceivers are fed into a post processing unit 303, which is operable to perform MIMO post-processing as seen in the portion of FIG. 3 reproduced at the right. *Ginis* fails to disclose using a split-pair or any additional receiver in conjunction with other processing to mitigate the crosstalk between pairs of transmission lines. FIG. 4A



and FIG. 4B in Applicant's specification illustrate embodiments of the invention including at least one split-pair receiver that assists in mitigating crosstalk in a multiline system in addition to increasing the number of receivers that can be used to identify sources of crosstalk noise, and therefore increase the number of receivers from which the crosstalk noise can be effectively removed. The combination of *Cioffi* and *Ginnis* fail to disclose any additional receivers, such as the split-pair receiver, recited in Applicant's claim 1.

Therefore Applicant submits that the combination of *Cioffi* and *Ginnis* fails to teach or suggest "using one or more split-pair receivers in a multiline communications system to identify crosstalk on a pair of transceivers coupled to the split pair receivers" as required by independent claim 1. Additionally, the Examiner provides no objective reason why one of ordinary skill in the art would be motivated to modify *Cioffi* and *Ginnis* to include the additional receivers as claimed in independent claim 1. Consequently, Applicant respectfully requests that the rejection for claim 1 be withdrawn.

New claims 2-4 depend from independent claim 1 and are patentable for at least the same reasons as set forth above. Furthermore, these claims recite unique combinations of elements not disclosed or suggested by *Cioffi* and *Ginnis*. Therefore, Applicant submits that claims 2-4 are patentable over *Cioffi* and *Ginnis*.

New independent claim 5 is a system claim similar to the method of claim 1. Claim 5 similarly recites "a split-pair receiver electrically connected to a line of the first pair of lines and a line of the second pair of lines and configured to identify crosstalk on the first and

second transceivers,” which, as set forth above with respect to claim 1, is not disclosed or suggested in *Cioffi* and *Ginnis*. Therefore, for the same reasons as set forth above with respect to claim 1, independent claim 5 is also patentable over *Cioffi* and *Ginnis*.

New claims 6-10 depend from independent claim 5 and are patentable for at least the same reasons as set forth above. Furthermore, these claims recite unique combinations of elements not disclosed or suggested by *Cioffi* and *Ginnis*. Therefore, Applicant submits that claims 6-10 are patentable over *Cioffi* and *Ginnis*.

### Conclusion

Applicant has made a bona fide effort to respond to each and every requirement set forth in the Office Action. In view of the foregoing amendments to the claims and remarks given herein, Applicant respectfully believes this case is in condition for allowance and respectfully requests allowance of the pending claims. If the Examiner believes any detailed language of the claims requires further discussion, the Examiner is respectfully asked to telephone the undersigned attorney so that the matter may be promptly resolved. The Examiner's prompt attention to this matter is appreciated.

Applicant is of the opinion that no additional fee is due as a result of this Amendment except for a one month extension of time, which is hereby requested. Payment of all charges due for this filing is made on the attached Electronic Fee Sheet. If any additional charges or credits are necessary to complete this communication, please apply them to Deposit Account No. 23-3000.

Respectfully submitted,

December 22, 2008  
Date

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